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WHAT IS CLAIMED IS:

1	1.	A crosspoint switch	h integrated	circuit	comprising:
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an array of input ports;

an array of output ports;

a switch matrix configured to selectively connect said input ports to said output ports for conducting electrical signals therebetween; and equalization circuitry coupled to at least partially offset transmission losses experienced by said electrical signal while external to said crosspoint switch integrated circuit.

- 2. The crosspoint switch integrated circuit of claim 1 wherein said equalization circuitry is configured to measure jitter within said electrical signals and to utilize jitter measurements as a basis for offsetting said transmission losses, said equalization circuitry being adaptive circuitry enabled to automatically select levels of equalization.
- 3. The crosspoint switch integrated circuit of claim 1 wherein said equalization circuitry includes a plurality of adjustable equalizers, said adjustable equalizers each having adjustable filtering characteristics within a fixed number of equalization settings.
- 4. The crosspoint switch integrated circuit of claim 3 wherein each said adjustable equalizer includes a plurality of switchable connections which individually adjust said filtering characteristics when activated.
- 5. The crosspoint switch integrated circuit of claim 4 wherein each said switchable connection includes a switch, at least some of said switchable connections including at least one component which significantly affects said filtering characteristics when said switchable connections are individually activated.

- 1 6. The crosspoint switch integrated circuit of claim 5 wherein at least some
- of said switchable connections are arranged in electrical parallel and said
- 3 components include capacitors and resistors.
- 7. The crosspoint switch integrated circuit of claim 5 wherein at least some
- of said switchable connections are arranged in electrical parallel and said
- 3 components include an inductor and a resistor.
- 8. The crosspoint switch integrated circuit of claim 5 wherein said switches
- 2 are transistors and said components include at least some of resistors,
- 3 capacitors, or inductors.
- 9. The crosspoint switch integrated circuit of claim 4 wherein adjustable
- 2 equalizers are coupled to said input ports in one-to-one correspondence.
- 1 10. The crosspoint switch integrated circuit of claim 1 wherein said equaliza-
- tion circuitry is fixed with respect to providing levels of equalization to said
- 3 electrical signals received at said input ports.
- 1 11. The crosspoint switch integrated circuit of claim 10 wherein said equaliza-
- tion circuitry includes a dedicated circuit for each said input port, said
- dedicated circuits being configured to provide one of a number of said levels
- 4 of equalization, wherein said level of equalization of a specific said dedicated
- 5 circuit is tailored on a basis of anticipated transmission loss for electrical
- signals received via the input port to which said dedicated circuit is dedicated.

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12. A crosspoint switching arrangement comprising:

a plurality of input ports connected to channels having nonuniform frequency responses with respect to incoming signal transmissions; a plurality of output ports connected to channels having nonuniform frequency responses with respect to outgoing signal transmissions; a switch matrix enabled to dynamically reconfigure connections of said input ports to said output ports; and

equalization circuitry coupled to one of said input and output ports, said equalization circuits having filtering characteristics that are tailored on a basis of said frequency responses of said channels to which said specific ones of said input and output ports are connected.

- 13. The crosspoint switching arrangement of claim 12 wherein said equalization circuitry is an adaptive equalizer configured to automatically tailor said filtering characteristics.
- 14. The crosspoint switching arrangement of claim 12 further comprising memory configured to store equalization settings for said equalization circuitry, said equalization circuitry including a separate equalization circuit for each said channel for which equalization is to be applied, each said equalization circuit having adjustable said filtering characteristics within a fixed number of available configurations, said equalization settings stored at said memory including a selection of a particular available said configuration for each said equalization circuit.
- 15. The crosspoint switching arrangement of claim 14 wherein each said equalization circuit includes a default configuration of first connected circuit components and a plurality of alternative configurations, said default configuration achieving a first level of frequency-dependent compensation for effects of skin loss in signals conducted via said channels.

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- 1 16. The crosspoint switching arrangement of claim 15 wherein each said
- 2 alternative configuration introduces second connected circuit components to
- 3 achieve different levels of frequency-dependent compensation for said effects
- 4 of skin loss.
- 1 17. The crosspoint switching arrangement of claim 16 wherein said second
- 2 connected circuit components are coupled to switches that selectively
- introduce said second connected circuit components, said switches being
- 4 manipulated based upon said equalization settings stored in said memory.
- 1 18. The crosspoint switching arrangement of claim 17 wherein said equaliza-
- tion circuits are coupled to said input ports and are individually adjustable
- from an exterior of an integrated circuit chip package in which said equaliza
 - tion circuits and switch matrix reside.
 - 19. A method of providing equalization for a crosspoint switch comprising:

 determining signal characteristics related to signal transmissions via each of a plurality of ports of said crosspoint switch; and

setting equalization circuitry housed within said crosspoint switch such that each said port has filtering characteristics tailored on a basis of said signal characteristics for said signal transmissions via said each port.

- 1 20. The method of claim 19 wherein said step of setting includes selectively
- 2 activating and deactivating switching devices which introduce parallel con-
- 3 nections of resistances and capacitances within said adjustable equalization
- 4 circuitry, said equalization circuitry being a plurality of adjustable equalization
- 5 circuits.
- 1 21. The method of claim 19 wherein said step of setting includes selectively
- 2 activating and deactivating switching devices which introduce series con-
- 3 nections of resistances and inductances within said adjustable equalization
- 4 circuits.

- 1 22. The method of claim 19 wherein said step of setting includes activating
- 2 adaptive equalization circuitry.
- 1 23. The method of claim 19 wherein said step of setting includes entering
- equalization settings into an integrated circuit chip in which said equalization
- 3 circuitry and a switch matrix reside.
- 1 24. The method of claim 19 wherein said step of determining said signal
- characteristics includes monitoring jitter at outputs of said crosspoint switch.